



Universal BioActive Cement

# Quick Start Guide

Stainless Steel, Pre-veneered SSC and Zirconia Preformed Crowns

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## Syringe Care

Remove syringe cap from end of BioCem syringe by twisting the cap and then pulling the cap off. The cap will only twist in one direction. **DO NOT THROW THE CAP AWAY.** If necessary bleed the syringe so both the cement components are at the opening of the syringe barrels. Place a NuSmile auto-mix tip on the syringe. Recap with original cap immediately after use.



Store in a cool, dry place.  
Refrigeration is recommended.



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### Important Preparation Notes

- When using a eugenol based material, seal the exposed medicament with a resin-free glass ionomer (GI).
- When little tooth structure remains or is tapered more than 15°, add undercuts to the prep where possible.
- If cementing to amalgam, composite or GI, clean, mechanically roughen, rinse and dry these surfaces.
- If using hemostatic agents or disinfectants, thoroughly water-rinse the tooth.
- Dry the tooth with compressed air and/or a cotton pellet. There should be no visible water, saliva or blood on the tooth or at the gum line/gingiva. **DO NOT DESICCATE THE TOOTH.**
- When cementing a zirconia crown that has been contaminated with saliva/blood while trial fitting, blast inside surfaces with Al<sub>2</sub>O<sub>3</sub> or clean with Ivoclean\*.
- Simultaneously cement only as many preformed crowns to not exceed 60 seconds working time.

### Step 1



If necessary, bleed syringe so both of the components are at the opening of the syringe barrels. Attach auto-mix tip. Align **V** on the tip with **V** on syringe. Twist to lock.

### Step 2



Dispense cement into the crown(s), filling the crown as normal. Limit the number of crowns loaded at one time to stay within 60 second "working time".

### Step 3



Immediately place the crown over the tooth and properly position/seat the crown. Adjust the crown into final position within 60 seconds of filling with cement.

### Step 4



Apply gentle finger pressure. Stabilize the crown for 20 seconds to allow the cement to react with the tooth.

### Step 5



Using a curing light, flash cure for 3-5 seconds each on both the facial and lingual margins. Do not light cure for more than 10 seconds total.\*\*

### Step 6



Gently remove all excess cement and clear contacts/interproximal areas with floss, taking care to avoid any movement of the crown. **FOR SSC AND PRE-VENEERED CROWNS**, keep crown stable for a total of 2 minutes.

### Step 7



**FOR ZIRCONIA CROWNS ONLY**, light cure for an additional 10 seconds minimum each on both the facial and lingual surfaces.

### Step 8



Remove mixing tip and re-cap with original cap immediately after use. Discard each tip after use. Tips are not reusable.

BioCem Cement begins to cure immediately when mixed.  
Average working time under operatory light: 60 seconds.

\*\* Step 5 flash cure settings: 3-5 sec (1200-2000 mW/cm<sup>2</sup>) or 5-10 sec (800-1200 mW/cm<sup>2</sup>)

\*Refer to NuSmile BioCem Technical Guide for more detailed information.